

## **4.0 POST TCRA ACTIVITIES**

### **4.1 Demolition Site**

On 14 November 1995, the sampling crew returned to Camp Grant to collect the final set of post disposal activity samples. The demolition contractor, UXB, Inc. were in the process of closing down the site, having fired the last demolition shot six days previously. In the time between the last demolition shot and the final sampling, a snowfall of approximately 2" had occurred and the ground was still snow covered.

Subsequent to the first disposal operation, UXB, Inc. had obtained permission to alter the method of disposal. In view of the small explosive charges expected and considering the amount of labor involved in building the initial bunker, permission was obtained from the Corps of Engineers to utilize 12 smaller disposal sites within the quarry and to utilize explosive perforators rather than yellowstick on the rounds to be destroyed. The perforators are small commercially available charges which perforate the target with a super hot jet of explosive gasses, leaving a hole of between 3/8" and 1/2" diameter.

Figure 4.1 and 4.2 depict the residue of the 12 disposal areas as they appeared on 14 November 1995. The small mounds to the left of the wall of sand bags in Figure 4.1 and to the right of the sandbags in Figure 4.2 are the remains of the small disposal pits which had originally been constructed of sand bags. After completion of disposal operations and in agreement with park personnel, intact sand bags were stacked in a row and damaged sand bags were dumped on the spot with the cloth portions being disposed of by UXB.

### **4.2 Sampling**

Samples were collected from each of the 12 disposal sites by breaking off sand from several areas around each pit with a hammer. (Temperature was 14°F). One sample of ice was taken from a low area a few feet from the pits in a southerly direction. This sample was allowed to melt and was preserved as a water sample. Two additional samples were collected from sand and soil north of the wall of sandbags. One composite

sample was collected at a distance of 3-7 meters from the sandbags and another at approximately 20 meters from the sandbags.

#### **4.3 Laboratory Analysis**

All samples collected during the post TCRA activities begin with the designation 951114 plus four digits identifying the specific sample. The water sample was 9511141017 (10 m) and 9511141012 a composite sample from the 12 disposal pits. Only the water sample and the 3 composites samples were analyzed for the analytes of concern, with the remaining individual samples being preserved under refrigeration in case further analysis was deemed necessary. Table 2.1, 2.2, and 2.3 summarize the results of the laboratory analysis. Other original laboratory reports are provided in Appendix F.



**Figure 4.1 Disposal Area Looking South-West**



**Figure 4.2 Disposal Area Looking North-East**